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09/515,224	02/29/2000	Emil P Novakov	3 1601		
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Lucent Technologies Inc			EXAMINER		
600 Mountain A P O Box 636	venue (Room 3C-512)	WILLIAMS, DEMETRIA A			
Murray Hill, NJ	07974-0636				
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			2631		
			DATE MAILED: 03/19/2003	0.	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner			Application No		Applicant(s)					
Demetria A. Williams	•		09/515,224		NOVAKOV, EMIL P	∞				
The MALIMG DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of an may be a valiable used the provisions of 3 CFR 1-138(a). In no word, however, may a noty be timely filled the period for may be sponded above is less than thiny (90) stays, a reply with the satulary minimum of thiny (30) stays will be considered sinely, if the period for may be sponded above is less than thiny (90) stays, a reply with the satulary minimum of thiny (30) stays will be considered sinely, if the period for may be sponded above is less than thiny (90) stays, a reply with the satulary minimum of thiny (30) stays will be considered sinely, if the period for may be sponded above is less than thiny (90) stays, a reply with the statutory inclination of the sponded and the sponded sinely, if the period for may be sponded above is less than thiny (90) stays a reply with the statutory minimum of thiny (30) stays will be considered sinely, if the period for may be sponded above is less than this (30) stays will be considered sinely, if the period for may be sponded above is less than this (30) stays will be statutory in the construction. Finally will be sent the stay of the construction of the sponded and accordance with the practice under Ex parts Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) star each gradient in the application. 4) Claim(s) star each gradient in the application of the stay o		Office Action Summary	Examiner		Art Unit					
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Etherison from may be evaluated under the provision of 37 CFR 1.13(d). In no event, however, may a righty be limitly litted Etherison from may be evaluated broad to the provision of 37 CFR 1.13(d). In no event, however, may a righty be limitly litted If the partied for righty appellation and the provision of 37 CFR 1.13(d). In no event, however, may a righty do limitly do yet will be considered the provision of the provisional application to become ACM/CORCO (33 U.S. § 133). If his parties to right yields his set of extended period for regit yield. Each of the parties and patent term adjustment. See 37 CFR 1.74(d). Status 1) Responsive to communication(s) filled on 29 February 2000. 2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are ellowed. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 and 6-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 5 is/are objected to by the Examiner. 10) The drawing(s) filed on 29 February 2000 is/are: a) accepted or b) objected to by the Examiner. Application Papers Here drawing(s) filed on 29 February 2000 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The eath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 and 120 13) Acknowledgment is made of a claim for foreign priority			ears on the cove	er sheet with the co	orrespondence address	;				
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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "26" has been used to designate both a digital signal processor (figure 1) and a digital to analog converter (specification page 8, line 7). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

3. The incorporation of essential material in the specification by reference to a foreign application or patent, or to a publication is improper. Applicant is required to amend the disclosure to include the material incorporated by reference. The amendment must be accompanied by an affidavit or declaration executed by the applicant, or a practitioner representing the applicant, stating that the amendatory material consists of the same material incorporated by reference in the referencing application. See *In re Hawkins*, 486 F.2d 569, 179 USPQ 157 (CCPA 1973); *In re Hawkins*, 486 F.2d 579, 179 USPQ 163 (CCPA 1973); and *In re Hawkins*, 486 F.2d 577, 179 USPQ 167 (CCPA 1973).

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4. The attempt to incorporate subject matter into this application by reference to European patent application 99 300 192.4 is improper because the reference to be incorporated is a foreign application.

5. The abstract of the disclosure is objected to because it includes a title, which must be deleted. Correction is required. See MPEP § 608.01(b).

Claim Objections

6. Claim 1 is objected to because of the following informalities: "sais" should be changed to --said-- line 13 of the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 1 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 9. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by

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raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 1 recites the broad recitation "a constant frequency interval", and the claim also recites "in particular a frequency correction burst" which is the narrower statement of the range/limitation. It is unclear if the constant frequency interval must be a frequency correction burst. For purposes of applying prior art, any constant frequency interval will be considered. Claim 8 recites the broad recitation "a wireless mobile telephony signal", and the claim also recites "preferably a GSM baseband signal" which is the narrower statement of the range/limitation. For purposes of applying prior art, any wireless mobile telephony signal will be considered.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 11. Claims 1, 3, and 6-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Atarius.
- 12. Regarding claims 1 and 9, Atarius discloses a system and method for determining the position of a frequency correction burst (FCB) comprising receiving a signal and detecting the

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occurrence of a frequency correction burst (see generally column 4, line 63 – column 5, line 67), reducing the noise of the FCB through cross-correlation (see generally column 5, lines 26-67), and adapting a filter to the constant frequency interval and determining a predefined reference based on the filtered output (see generally column 5, lines 40-44).

- 13. Regarding claim 2, Atarius discloses that if an estimate has a peak that is at least as great as a predetermined threshold, then the signal corresponds to an FCB (see generally column 7, lines 12-15). Therefore, the threshold must define the beginning of the constant frequency interval.
- 14. Regarding claim 3, Atarius further discloses determining the peak values of the filtered output and detecting a change in the peak value that exceeds a threshold (see generally column 5, lines 40-44).
- 15. Regarding claim 6, Atarius further discloses a cross correlation value between a first and second section of the signal (see generally column 5, lines 26-67).
- 16. Regarding claim 7, Atarius further discloses that the constant frequency interval is determined after the signal is noise-reduced (see generally column 4, line 63 column 5, line 67).
- 17. Regarding claims 8 and 10, Atarius further discloses that the method is used in a GSM system or other mobile communications system (see generally column 11, lines 17-25).

Claim Rejections - 35 USC § 103

18. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

19. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Atarius in view of Arora. Atarius discloses all of the elements as applied above in reference to claim 1, but not disclose that a FIR bandpass filter performs the filtering. However, the use of this type of filter is well known in the art for filtering a finite value. Arora discloses a system and method for determining a constant frequency interval wherein a BPF is used to filter the signal that has been adapted and tuned to the frequency of the FCB (see generally column 3, lines 39-50). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Atarius to include the use of an FIR BPF, as disclosed by Arora.

Allowable Subject Matter

20. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Prior art of record does not define the chosen coefficients as defined by the applicant.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Demetria A. Williams whose telephone number is (703) 305-4078. The examiner can normally be reached on Monday - Friday, 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (703) 305-4378. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

daw March 17, 2003